Trimble TSC7 Handheld PC

Model 121300

Draft

Version 1.00
Revision A
May 2017

Trimble

Corporate Office

Trimble Inc.

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USA

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Global technical support

To request detailed technical assistance for Trimble solutions, contact: trimble_support@trimble.com

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Release Notice

This is the May 2017 release (Revision A) of the Trimble TSC7 handheld PC documentation.

European declaration of conformity

According to ISO / IEC Guide 22 and EN 450 14

Manufacturer's Name: Trimble Inc..

Manufacturer's Address: 935 Stewart Drive, Sunnyvale CA 94085, USA

Declares, under our sole responsibility, that the product:

Product Name: TSC7

Model Number: 121300

Conforms to the following Product Specifications:

- R&TTE Directive 1999/5/EC ETSI EN 300 328 V1.8.1 (2012-06) ETSI EN 301 489-1 V1.9.2 (20011-09)

- ETSI EN 301 489-17 V2.2.1 (2012-09)

- EN 55022: 2010+AC: 2011

- EN 55024: 2010

- EN 60950-1 (2001)

- EN 61000-3-2: 2006+A2: 2009

- EN 61000-3-3: 2013

Supplementary information

In addition, the product is battery powered and the power supply provided with this product has been certified to IEC 60950 +A1, A2, A3, A4, A11. As manufacturer, we declare under our sole responsibility that the equipment follows the provisions of the Standards stated above.

Importer of Record

Trimble European Regional Fulfillment Center

Logistics Manager

Meerheide 45

55521DZ Eersel

Netherlands.

Trimble EC

Trimble Germany

Am Princ Parc 11

65479 Raunheim

Germany

EC	REP
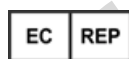
CAUTION - Only approved accessories may be used with this equipment. In general, all cables must be high quality, shielded, correctly terminated and normally restricted to two meters in length. Power supplies approved for this product employ special provisions to avoid radio interference and should not be altered or substituted. Unapproved modifications or operations beyond or in conflict with these instructions for use may void authorization by the authorities to operate the equipment.

Recycling information

You should dispose of the tablet computer and accessories properly according to local laws and regulations. Because the tablet computer contains electronic components, it must be disposed of separately from household waste. When the tablet computer reaches its end of life, contact your local Trimble reseller to learn about disposal and recycling options for your area.

Recycling in Europe

The symbol at right means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For information about recycling Trimble WEEE (Waste Electrical and Electronic Equipment) products that run on electrical power go to

Taiwan – Battery Recycling Requirements

The product contains a Lithium-ion battery. Taiwanese regulations require that waste batteries are recycled.

廢電池請回收

China Recycling Requirements

[Insert China Hazardous Substances declaration table]

Regional compliance

Australia and New Zealand

This product conforms with the regulatory requirements of the Australian Communications and Media Authority (ACMA) Telecommunications, Radiocommunications and EMC Labelling Notices, thus satisfying the requirements for RCM marking and sale within Australia and New Zealand.

Europe

This Trimble product has been tested and found to comply with all requirements for CE Marking and sale within the European Economic Area (EEA). The tablet computer has Bluetooth and wireless LAN approval and satisfies the requirements for Radio and Telecommunication Terminal Equipment specified by European Council Directive 1999/5/EC. These requirements provide reasonable protection against harmful interference when the equipment is operated appropriately in a residential or commercial environment.

The tablet computer is intended for connection to European Networks operating on GSM 900, or GSM 1800 MHz.

Canada

IC ID: 5817A-7265NGW

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Industry Canada rules.

Les changements et modifications non expressément approuvés par le fabricant ou le détenteur de cet équipement peuvent annuler votre droit à utiliser cet appareil en vertu des règles d'Industrie Canada.

Antenna Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Licence exempt

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This Category II radio communication device complies with Industry Canada Standard RSS-310.

Ce dispositif de radiocommunication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

IMPORTANT NOTE: IC Radiation Exposure Statement

This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528. This equipment should be installed and operated with minimum distance 0.5 cm between the radiator & your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. The County Code Selection feature is disabled for products marketed in the US/Canada.

IC SAR warning

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in specific host products operated in portable exposure conditions.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) d'IC lorsqu'il est installé dans des produits hôtes particuliers qui fonctionnent dans des conditions d'exposition à des appareils portables.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems; the maximum antenna gain permitted (for devices in the bands 5250-5350 MHz and 5470-5725 MHz) to comply with the e.i.r.p. limit; and The maximum antenna gain permitted (for devices in the band 5725-5850 MHz) to comply with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate, as stated in section A9.2(3). In addition, High-power radars are allocated as primary users (meaning they have priority) of the band 5250-5350 MHz and this radar could cause interference and/or damage to LE-LAN devices.

U.S.

FCC ID:S9E-7265NGW

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and the receiver.

– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

– Consult the dealer or an experienced radio/TV technician for help.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.

The radios in this device have been designed and manufactured to not exceed stipulated emission limits for exposure to radio frequency (RF) energy as required by the Federal Communications Commission of the U.S. Government 47 C.F.R. § 2.1091 and 2.1093.

The external antenna connector provided in this device is for GNSS antennas only.

Operation on the 5.15-5.25GHz frequency band is restricted to indoor use only. The FCC requires indoor use for the 5.15-5.25GHz band to reduce the potential for harmful interference to co-channel Mobile Satellite Systems. Therefore, it will only transmit on the 5.25-5.35 GHz, 5.47-5.725 GHz and 5.725 –5.850 GHz band when associated with an access point (AP).

CE

a. Caution:

· Risk of explosion if battery replaced by an incorrect type.

· Dispose of used batteries according to the instructions.

b. Make sure the temperature for adapter will not be higher than 40 ° C.

Limited Warranty Terms and Conditions

Product Limited Warranty

Subject to the terms and conditions set forth herein, Trimble Inc. ("Trimble") warrants that for a period of (1) year from date of purchase this Trimble product (the "Product") will substantially conform to Trimble's publicly available specifications for the Product and that the hardware and any storage media components of the Product will be substantially free from defects in materials and workmanship.

Product Software

Product software, whether built into hardware circuitry as firmware, provided as a standalone computer software product, embedded in flash memory, or stored on magnetic or other media, is licensed solely for use with or as an integral part of the Product and is not sold. The terms of the end user license agreement, as included below, govern the use of the Product Software, including any differing limited warranty terms, exclusions and limitations, which shall control over the terms and conditions set forth in the limited Product warranty.

Warranty Remedies

If the Trimble Product fails during the warranty period for reasons covered by this limited warranty and you notify Trimble of such failure during the warranty period, Trimble will repair OR replace the nonconforming Product with new, equivalent to new, or reconditioned parts or Product, OR refund the Product purchase price paid by you, at Trimble's option, upon your return of the Product in accordance with Trimble's product return procedures then in effect.

How to Obtain Warranty Service

To obtain warranty service for the Product, it is recommended you contact your Trimble dealer. Alternatively, you may contact Trimble to request warranty service by emailing Repair_Services@Trimble.com. Please be prepared to provide:

– your name, address, and telephone numbers;

– product name, part number and serial number;

– proof of purchase;

– an explanation of the problem.

The customer service representative may need additional information from you depending on the nature of the problem.

Warranty Exclusions and Disclaimer

This Product limited warranty shall only apply in the event and to the extent that (i) the Product is properly and correctly installed, configured, interfaced, maintained, stored, and operated in accordance with Trimble's applicable operator's manual and specifications, and; (ii) the Product is not modified or misused. This Product limited warranty shall not apply to,

and Trimble shall not be responsible for, defects or performance problems resulting from (i) the combination or utilization of the Product with hardware or software products, information, data, systems, interfaces, or devices not made, supplied, or specified by Trimble; (ii) the operation of the Product under any specification other than, or in addition to, Trimble's standard specifications for its products; (iii) the unauthorized installation, modification, or use of the Product; (iv) damage caused by: accident, lightning or other electrical discharge, fresh or salt water immersion or spray (outside of Product specifications); or exposure to environmental conditions for which the Product is not intended; (v) normal wear and tear on consumable parts (e.g., batteries); or (vi) cosmetic damage. Trimble does not warrant or guarantee the results obtained through the use of the Product or Software, or that software components will operate error free.

NOTICE REGARDING PRODUCTS EQUIPPED WITH TECHNOLOGY CAPABLE OF TRACKING SATELLITE SIGNALS FROM SATELLITE BASED AUGMENTATION SYSTEMS (SBAS) (WAAS, EGNOS, GAGAN, MSAS AND LUCH), OMNISTAR, BEIDOU, GPS, GALILEO OR GLONASS SATELLITES, OR FROM IALA BEACON SOURCES: TRIMBLE IS NOT RESPONSIBLE FOR THE OPERATION OR FAILURE OF OPERATION OF ANY SATELLITE BASED POSITIONING SYSTEM OR THE AVAILABILITY OF ANY SATELLITE BASED POSITIONING SIGNALS.

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NOTE: THE ABOVE TRIMBLE LIMITED WARRANTY PROVISIONS WILL NOT APPLY TO PRODUCTS PURCHASED IN THOSE JURISDICTIONS (E.G., MEMBER STATES OF THE EUROPEAN ECONOMIC AREA) IN WHICH PRODUCT WARRANTIES ARE THE RESPONSIBILITY OF THE LOCAL DEALER FROM WHOM THE PRODUCTS ARE ACQUIRED. IN SUCH A CASE, PLEASE CONTACT YOUR TRIMBLE DEALER FOR APPLICABLE WARRANTY INFORMATION.

Notice to Australian Purchasers - The Australian Consumer Law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Trimble's warranty, as set out in the user manual accompanying this statement, or as described in the warranty card accompanying the Product you purchased, is in addition to any mandatory rights and remedies that you may have under the Australian Consumer Law.

Official Language

THE OFFICIAL LANGUAGE OF THESE TERMS AND CONDITIONS IS ENGLISH. IN THE EVENT OF A CONFLICT BETWEEN ENGLISH AND OTHER LANGUAGE VERSIONS, THE ENGLISH LANGUAGE SHALL CONTROL

End User License Agreement for Product Software TO BE UPDATED

IMPORTANT, READ CAREFULLY. THIS END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU AND Trimble Inc. ("Trimble") and applies to the computer software provided with the Trimble product purchased by you (whether built into hardware circuitry as firmware, embedded in flash memory, or stored on magnetic or other media), or provided as a stand-alone computer software product, and includes any accompanying written materials such as a user's guide or product manual, as well as any "online" or electronic documentation ("Software" or "Product Software"). This EULA will also apply to any Software error corrections, updates and upgrades subsequently furnished by Trimble, unless such are accompanied by different license terms and conditions, which will govern their use. You have acquired a Trimble Product ("Device") that includes Software, some of which was licensed by Trimble from Microsoft Corporation or its affiliates (collectively "Microsoft"). The Software licensed from Microsoft, as well as associated updates, supplements, internet-based services and support services, media, printed materials, and "online" or electronic documentation ("Microsoft Software"), are protected under this EULA. The Software is also protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Software is licensed, not sold.

BY USING THE SOFTWARE, INCLUDING USE ON THIS DEVICE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE DEVICE OR SOFTWARE. INSTEAD CONTACT TRIMBLE FOR A REFUND OR CREDIT. As described below, using some features also operates as your consent to the transmission of certain standard computer information for Internet-based services.

WARNING - If the Software contains voice operated technologies, then operating this Software requires user attention. Diverting attention away from the road while driving can possibly cause an accident or other serious consequence. Even occasional, short diversions of attention can be dangerous if your attention is diverted away from your driving task at a critical time. Trimble and Microsoft make no representations, warranties or other determinations that ANY use of this Software is legal, safe, or in any manner recommended or intended while driving or otherwise operating a motor vehicle.

1 LIMITED WARRANTY FOR TRIMBLE PRODUCT SOFTWARE

1.1 Limited Warranty. Trimble warrants that the Software, exclusive of the Microsoft Software, will perform substantially in accordance with the accompanying written materials for a period of twelve (12) months from the date of purchase. This limited warranty gives you specific legal rights; you may have others, which vary from state/jurisdiction to state/jurisdiction. The above limited warranty does not apply to Fixes, Minor Updates, or Major Upgrades of the Software after expiration of the twelve (12) month limited warranty period, all of which are provided "AS IS" and without warranty unless otherwise specified in writing by Trimble. Because the Software is inherently complex and may not be completely free of nonconformities, defects or errors, you are advised to verify your work. Trimble does not warrant that the Software will operate error free or uninterrupted, will meet your needs or

expectations, or that all nonconformities can or will be corrected.

1.2 Software Fixes. During the limited warranty period described in section 1.1 above, you will be entitled to receive such Fixes to the Product Software that Trimble releases and makes commercially available and for which it does not charge separately, subject to the procedures for delivery to purchasers of Trimble products generally. If you have purchased the Product from an authorized Trimble dealer rather than from Trimble directly, Trimble may, at its option, forward the software Fix to the Trimble dealer for final distribution to you. Minor Updates, Major Upgrades, new products, or substantially new software releases, as identified by Trimble, are expressly excluded from this update process and limited warranty. Receipt of Software Fixes or other enhancements shall not serve to extend the limited warranty period.

For purposes of this warranty the following definitions shall apply : (1) "Fix(es)" means an error correction or other update created to fix a previous software version that does not substantially conform to its Trimble specifications; (2) "Minor Update" occurs when enhancements are made to current features in a software program; and (3) "Major Upgrade" occurs when significant new features are added to software, or when a new product containing new features replaces the further development of a current product line. Trimble reserves the right to determine, in its sole discretion, what constitutes a Fix, Minor Update, or Major Upgrade.

1.3 Customer Remedies. Trimble's and its suppliers' entire liability, and your sole remedy, with respect to the Software shall be either, at Trimble's option, (a) repair or replacement of the Software, or (b) return of the license fee paid for any Software that does not meet Trimble's limited warranty. This limited warranty is void if failure of the Software has resulted from (1) accident, misuse, abuse, or misapplication; (2) alteration or modification of the Software without Trimble's authorization; (3) interaction with software or hardware not supplied or supported by Trimble; (4) your improper, inadequate or unauthorized installation, maintenance or storage; or (5) if you violate the terms of this EULA. Any replacement Software will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer.

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ACCURACY AND EFFORT (INCLUDING LACK OF NEGLIGENCE) FOR THE MICROSOFT SOFTWARE IS WITH YOU. ALSO, THERE IS NO WARRANTY AGAINST INTERFERENCE WITH YOUR ENJOYMENT OF THE MICROSOFT SOFTWARE OR AGAINST INFRINGEMENT.

1.5 PLEASE NOTE: THE FOREGOING TRIMBLE LIMITED WARRANTY PROVISIONS MAY NOT APPLY TO SOFTWARE PRODUCT LICENSES PURCHASED IN THOSE JURISDICTIONS (SUCH AS COUNTRIES OF THE EUROPEAN UNION) IN WHICH PRODUCT WARRANTIES ARE OBTAINED FROM THE LOCAL DISTRIBUTOR. IN SUCH CASES, PLEASE CONTACT YOUR TRIMBLE DEALER FOR APPLICABLE WARRANTY INFORMATION.

2 TRIMBLE LIMITATION OF LIABILITY

2.1 LIMITATION OF LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL TRIMBLE OR ITS SUPPLIERS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OR INABILITY TO USE THE SOFTWARE, OR THE PROVISION OF OR FAILURE TO PROVIDE SUPPORT SERVICES, EVEN IF TRIMBLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY EXCLUSIVE REMEDY PROVIDED IN THIS EULA.

IN NO EVENT SHALL THE TOTAL CUMULATIVE LIABILITY OF TRIMBLE AND ITS SUPPLIERS IN CONNECTION WITH THIS EULA OR THE SOFTWARE, WHETHER BASED ON CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, EXCEED THE ACTUAL AMOUNT PAID TO TRIMBLE FOR THE SOFTWARE LICENSE GIVING RISE TO THE CLAIM. BECAUSE SOME STATES AND JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

3 GENERAL

3.1 This EULA shall be governed by the laws of the State of California and applicable United States Federal law without reference to "conflict of laws" principles or provisions. The United Nations Convention on Contracts for the International Sale of Goods will not apply to this EULA. Jurisdiction and venue of any dispute or court action arising from or related to this EULA or the Software shall lie exclusively in or be transferred to the courts the County of Santa Clara, California, and/or the United States District Court for the Northern District of California. You hereby consent and agree not to contest, such jurisdiction, venue and governing law.

3.2 Section 3.1 notwithstanding, if you acquired this product in Canada, this EULA is governed by the laws of the Province of Ontario, Canada. In such case each of the parties to this EULA irrevocably attorns to the jurisdiction of the courts of the Province of Ontario and further agrees to commence any litigation that may arise under this EULA in the courts located in the Judicial District of York, Province of Ontario. If you acquired this product in the European Union, this EULA is governed by the laws of The Netherlands, excluding its rules governing conflicts of laws and excluding the United Nations Convention on the International Sale of Goods. In such case each of the parties to this EULA irrevocably attorns to the jurisdiction of the courts of The Netherlands and further agrees to commence any litigation that may arise under this EULA in the courts of The Hague, The Netherlands.

3.3 Trimble reserves all rights not expressly granted by this EULA.

3.4 Official Language. The official language of this EULA and of any documents relating thereto is English. For purposes of interpretation, or in the event of a conflict between English and versions of this EULA or related documents in any other language, the English language version shall be controlling.

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Read this guide for important safety and health information and the terms of the Limited Warranty that apply to the Trimble® TSC7 handheld PC that you have purchased. Keep all printed guides for future reference. Failure to follow instructions and properly set up, use, and care for this product can increase the risk of serious injury or death, or damage the device or devices.

Battery safety

Lithium-Ion batteries are classified by the U. S. Federal Government as non-hazardous waste and are safe for disposal in the normal municipal waste stream. These batteries contain recyclable materials and are accepted for recycling. Dispose of used batteries in accordance with local regulations.

⚠ WARNING – Non-approved batteries will not function in the device. Use only the battery for the system for which it was specified. Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.

⚠ WARNING – There are no user-serviceable parts in the battery pack. Do not disassemble or open, crush, bend or deform, puncture, or shred the battery. Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard. Do not expose to temperatures above +158 °F (+70 °C).

⚠ WARNING – Improper battery use may result in a fire, explosion, or other hazard.

- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.

- Avoid dropping the device or battery. If dropped, especially on a hard surface, and the user suspects damage to the battery, take it to a service center for inspection.

- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.

- Battery usage by children should be supervised.

Power supply safety

⚠ WARNING – Use only AC and vehicle adapters intended for the device. Other external power sources may damage your product and void the warranty.

- Ensure the input voltage on the adapter matches the voltage in your location. Ensure the adapter has prongs compatible with your outlets.

- The AC power supply is designed for indoor use only. Avoid using the AC power supply in wet areas.

- Unplug the power supply from power when not in use.

- Do not short the output connector.

Touch screen glass

⚠ CAUTION – The touch screen on this device is made of glass. This glass could break if the device is dropped on a hard surface or receives a significant impact. If the glass chips or cracks, do not touch or attempt to remove the broken glass. Cracked or chipped glass due to misuse or abuse is not covered under the product's limited warranty.

Service safety

⚠ WARNING – Do not attempt to take apart, open, service, or modify the product, accessories, or power supply. Doing so could present the risk of electric shock or other hazard. Any evidence of any attempt to open and/or modify this device, including any peeling, puncturing, or removal of any of the labels, will void the Limited Warranty.

Safe environments of use

⚠ WARNING – Areas with potentially explosive atmospheres are often, but not always, posted and can include fueling areas, such as below decks on boats, fuel or chemical transfer or storage facilities, or areas where the air contains chemicals or particles, such as grain dust, or metal powders. When you are in such an area, turn off your mobile device, and do not remove or install battery chargers, AC adapters, or any other accessory. In such areas, sparks can occur and cause an explosion or fire.

Distraction

⚠ WARNING – Using the device in some circumstances can distract you and may cause a dangerous situation. Observe rules that prohibit or restrict the use of mobile devices (for example, avoid operating the device while driving a vehicle).

Telecommunications & Internet Association (TIA)

Hearing Aids: Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider, or call the customer service line to discuss alternatives.

Pacemakers and Other Medical Devices: The Health Industry Manufacturers Association recommends a minimum separation of six inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should use the ear opposite the pacemaker to minimize the potential for interference. If you have any reason to suspect that interference is taking place, turn the phone OFF immediately.

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn the phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

SAR

[Blurb]

Caring for your device

Cleaning

Turn off the device, and disconnect it from external power. Use a soft, dampened cloth with either water or a diluted mild detergent. If a mild detergent is used, ensure all soap residue is removed. Do not use chemical cleaners.

Touchscreen care

The TSC7 handheld PC is extremely rugged, and is designed to withstand extreme conditions and harsh treatment, however taking proper care of the touchscreen will prolong the life and ensure optimal display performance of the touchscreen of this product. Excessive or prolonged exposure to abrasives, oil, dust, chemicals, and ultraviolet light can affect the performance of your touchscreen over time.

To help protect the screen:

- **Clean it frequently.** Use a soft, lint-free cloth to wipe the screen. You can dampen the cloth with water or an eyeglass cleaner. If the display is very dirty, it can be washed off under a gently running tap.

  ⚠️ WARNING – Make sure that all ports and doors are fully closed, and that the device is not connected to an external power supply. Do not use chemical or abrasive cleaners.

- **Keep it covered when not in use.** Store the TSC7 handheld PC in a carry case or pouch while you are in transit or not using it.

- **Keep it out of the sun when not in use.** Do not store the TSC7 handheld PC in direct sunlight for a long time unnecessarily. Ultraviolet light and excessive heat from sun-loading heat can damage the display.

- **Use proper touchscreen tools**. Use either fingers or the TSC7 handheld PC's stylus pen, or other devices specifically designed for use with capacitive touchscreens to operate the touchscreen of this device. The use of ballpoint pens, metal tools or other

sharp objects to operate the touchscreen may scratch and/or damage the surface of the touchscreen.

- **Avoid drops, tumbles, and abrasives**. The TSC7 handheld PC is designed to resist damage for drops up to 122 cm (4 feet). However, you should protect the display from impact, pressure, and abrasive substances that can scratch it or crack it. The device should not be dropped unnecessarily. Use the screen protectors to keep the touchscreen clean and protected, following the instructions provided on the screen protector packaging.

Battery care

Use and storage temperature: Lithium-ion batteries are sensitive to high temperatures, so keep the device's batteries out of direct sun for long periods, and do not leave batteries in a hot car, especially on a dashboard in full sun or other environments where temperatures can exceed +70 °C. Battery life can be shortened if stored or operated outside of these temperature ranges. Recommended storage temperature is at room temperature (~20°C). When you are using the device or charging the battery pack, it is normal for the device and battery pack to get warm.

If the interior temperature of the device exceeds normal operating temperatures (for example, in a hot car or in direct sunlight for extended periods of time), you may experience the following as it attempts to regulate its temperature automatically:

- The device stops charging.
- If the device cannot regulate its internal temperature, it may go into a Sleep state until it cools (see Sleep and Hibernate states, page 1).

Move the device to a cooler location out of direct sunlight and wait a few minutes before trying to use the device again.

Charging: Recharge the battery any time; the battery pack does not need to be empty or low before you recharge it. However, it is best to let the battery run to below 10 percent at least once a month before you recharge it. Battery pack recharging is supported at temperatures between 0 °C and +40 °C. Use only the manufacturer designated charging accessories to recharge the batteries.

Other environmental conditions: Battery packs are sealed from water and dust, and are tested for protection from drops from heights up to 1.22m. However to prolong the life of the battery pack, dry it off with a cloth if it becomes wet, do not intentionally submerge the battery, and take care to avoid unnecessary drops, mechanical shocks, and vibrations.

The TSC7 handheld PC is designed to work in ambient temperatures between -20° and 60° C and to be stored in temperatures between -30° and 70° C. Avoid exposing the device to dramatic changes in temperature or humidity.

Product specifications

Operating System	Microsoft Windows 10 Pro
Processor	Intel® Apollo Lake CPU
Graphics	Intel HD Graphics
RAM	8 GB
User storage	64 GB
Display	7" 1280x800 pixels Up to 650 nits
Battery & Power	11,350 mA / 3.7 V (42 Whr) Charge time: < 4 hours Hot swap feature: Up to XX minutes Stand by time: Up to XX hours Run time (airplane mode): Up to XX hours Run time (WiFi mode): Up to XX hours Run time (3G mode): Up to XX hours Run time (4G mode): Up to XX hours
I/O module connectors	2x USB Host 1x USB Host 1x microUSB client DC power input Office docking connector
Audio	Speaker Microphone 3.5mm mini-jack headset connector
Bluetooth	M.2 module, Bluetooth 4.1 10 meter effective range Supports all default Windows 10 Bluetooth profiles
Wi-Fi	Wi-Fi 802.11 ac/n support

	2.4GHz/5GHz ISM radio band
Mobile broadband	Sierra Wireless LTE + 3G module 2x variants: - US - ROW
GNSS	Ublox NEO-M8T chipset GPS, GLONASS, QZSS, SBAS Supports raw-data output for postprocessing
Camera	Front: 2MP Rear: 8MP, LED Flash
Sensors	3-axis accelerometer Magnetic sensor Gyroscope Vibration motor Ambient light sensor
Environmental	**IEC:** Independently tested and certified for: - Water and Dust Ingress Protection: IP65 & IP68 (IEC standard 60529) **MIL-STD-810G.** Independently tested and certified for: - Operating temperature: -30 °C to +60 °C - Storage temperature: -40 °C to +70 °C - Humid environment storage and operation: 0%-95% non-condensing conditions - High altitude storage (40,000 ft) and operation (to 30,000 ft) - Drop protection: 4 ft / 1.22 m - Resistance to mechanical shock: ... - Resistance heavy machine vibration: ...
Regional Compliance	

Introduction

▶ Registration

▶ Configuration options

▶ In the box

▶ Replacement and optional accessories

▶ Parts of the TSC7 handheld PC

This user guide describes how to configure and use the Trimble TSC7 handheld PC powered by the Microsoft® Windows® 10 Pro operating system. The information in this guide supplements the information in the Quick Start Guide, which you receive in the box with the device.

Even if you have used other Trimble® handheld or tablet field computers before, it is recommends that you spend some time reading this guide to learn about the special features of the product.

⚠ WARNING – Before you use this product, make sure that you have read and understood all safety requirements. Failure to follow these safety instructions could result in fire, electric shock, or other injury, or damage to the tablet computer and/or other property. For more information refer to Safety information, page 12 of this guide.

Registration

To receive information regarding updates and new products, contact your local dealer or visit the Trimble customer registration website at www.trimble.com/register. When you have registered, you can select the newsletter, upgrade, or new product information.

To register your device, you will need the serial number. The serial number is a unique number of your TSC7 handheld PC and is located on a label inside the battery cavity.

IMAGE

Configuration options

The TSC7 handheld PC is powered by the Windows 10 Pro operating system, and is available in the following main configurations:

- ABCD or QWERTY keypad
- North America or worldwide WWAN

For a full list of product features and their specifications, refer to the Product specifications, page 17.
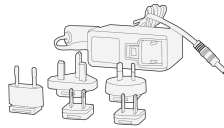
In the box

A standard pack-out has the following items:

TCS7 Controller

Battery pack   Battery charger

AC Power adapter   Tempered Glass Screen protector

Replacement and spare or optional accessories

A wide range of replacement and optional accessories are available to purchase for the TSC7 handheld PC, including:

- AC Power Adapter (International)
- DC Vehicle Charger (12-24V)
- Heavy Duty DC Vehicle Charger (9-32V)
- Office Docking Station
- Shoulder Sling
- USB to USB Data Sync Cable for Windows
- Tempered Glass Screen Protector (1-pack)
- Spare Battery Pack (Standard or Extended)
- Battery Pack Charger
- Quick Release Mounting Plate
- Quick Release Pole Mount
- Quick Release Vehicle Soft Mount
- Quick Release Vehicle Hard Mount
- Double Suction-cup Hard Mount Base Adapter

- Hand Strap
- Fabric Carry Case
- Capacitive Stylus and Tether
- Docking I/O Module
- Serial I/O Module

Parts of the TSC7 handheld PC

1 Status LED	**8** Stylus
2 Microphone	**9** Stylus tether mount points
3 Camera flash	**10** Door to SIM and SD cards
4 Camera	**11** Camera with flash
5 Light sensor	**12** Upper pole mount lock
6 Speaker	**13** Lower pole mount lock
7 Handstrap mount points	**14** Battery latch
	15 Battery bays
	16 Drainage for stylus cavity
	17 I/O block

2

Basic setup and operation

▶ Installing and removing the battery packs

▶ Installing an SD card

▶ Installing a SIM card

▶ Tethering the stylus

▶ Installing a screen protector

▶ Charging and power modes

▶ Using the touchscreen

▶ Display settings: adjusting the backlight

This section tells you how to get started using your TSC7 handheld PC and explains some basic operating system features.

When you start your TSC7 handheld PC for the first time, the Microsoft Windows operating system will take you through some basic set-up steps; follow the instructions on the screen.

For more details on setting up and using the Windows 10 operating system see Get Started with Windows 10 on the Microsoft Windows support website.

Installing and removing the battery packs

The battery packs in the TSC7 handheld PC can be charged inside the device, or using the Battery charger accessory (part number xxxxx).

The battery packs in the TSC7 handheld PC are also hot swappable; you can remove one battery pack while the TSC7 handheld PC is still running on the second battery pack, and replace it with a freshly charged battery pack without shutting down or needing to restart the device.

Installing the battery pack

1. Turn the battery latch to give way for one battery.

   NOTE – The battery latch can be turned a full 360° to prevent unintended false locks.

2. Insert one battery.

3. Turn the battery latch 180°.

4. Insert a second battery.

5. Turn the battery latch 90° to lock both batteries in place.

Removing / hot-swapping the battery pack

If you remove both batteries at the same time the device will instantly turn off due to power loss. Make sure you keep one battery in the device. If you have the device turned off you can remove both batteries at the same time.

1. Turn the battery latch 90°.

2. Remove one battery.

3. Replace this battery.

4. Turn the battery latch by 180°.

5. Remove the second battery.

6. Replace the second battery.

7. Turn the battery latch 90° to lock both batteries in place.

The device consumes electricity even when it is off. Depending on how your system is configured, if the battery pack is fully charged the battery will fully discharge in approximately the following period of time:

Power state	Discharge period
When power is off	Approximately X days.
In Sleep state	Approximately X days.
In Hibernation state	Approximately X days.

Installing an SD card

The device includes 64 GB of onboard storage. To expand the storage, use a microSD card. SD cards up to 256 GB are supported.

To install an SD card:

1. If the device is on, turn it off; tap ⊞ / **Power** / **Shut down**.

2. Remove the battery pack (see Installing and removing the battery packs, page 24).

3. Remove the SD/SIM bay splash cover.

4. Slide the MicroSD card door to the OPEN position.

5. Flip the microSD card door open.

6. Slide a microSD card into the SD card door in the orientation shown

7. Flip the door down to close it.

8. Slide the microSD card door into the LOCK position.

9. Replace the SD/SIM card splash cover, and reinsert the battery pack Installing and removing the battery packs, page 24.

⚠ **CAUTION** – The SD card door can be damaged if handled carelessly. Take care not to twist or warp the door when opening or closing the hinge, or unlocking or locking the latch.

Installing a SIM card

If your device is equipped with a 4G LTE modem, you will need a SIM card and a data plan from your local cellular service provider to use this feature. If you are unsure, check with your mobile operator.

⚠ **CAUTION** – The SIM card door can be damaged if handled carelessly. Take care not to twist or warp the door when opening or closing the hinge, or unlocking or locking the latch.

1. If the device is on, turn it off; tap ⊞ / **Power** / **Shut down**.

2. Remove the battery pack (see Installing and removing the battery packs, page 24).

3. Remove the SD/SIM bay splash cover.

4. Slide the SIM card door to the OPEN position.

5. Flip the SIM card door open.

6. Place your SIM card into the bay in the orientation shown.

7. Flip the door down to close it.

8. Slide the SIM card door into the LOCK position.

9. Replace the SD/SIM card splash cover, and reinsert the battery pack (see Installing and removing the battery packs, page 24).

Tethering the stylus

Attach the stylus to the device to prevent accidentally dropping the stylus. The stylus is supplied with one end of the tether cord pre-looped to the stylus. You can attach the stylus to the left or the right side of the device. To tether the stylus to the device:

1. Take the loose end of the tether cord and push it through the tether point.

2. Feed the stylus through the loop and pull tight. If the hand strap accessory is fitted, slide the stylus through the stylus loop on the hand strap.

3. Place the stylus in the stylus dock to store it when not in use.

Installing a screen protector

The TSC7 handheld PC is fitted with a chemically strengthened Gorilla Glass touchscreen which is highly resistant to abrasion and impact damage. However to ensure maximum protection, it is recommended that you use a Trimble-approved toughened glass TSC7 handheld PC screen protector.

To install a screen protector:

1. Place the device on a clean, flat surface.

2. Clean the touchscreen with a damp cloth, alcohol wipe or similar.

3. Polish and dry the screen to remove any dust with the lint-free cleaning cloth supplied with the screen protector.

4. Remove the protective film from the screen protector.

5. Align the screen protector with the glass portion of the display. Use the edge of the keypad as a guide. The screen protector should line up evenly with the edge of the keypad and the edges of the device.

6. Carefully lay the screen protector down on the screen. If you make a mistake and the glass looks off-center, you can gently lift the screen protector up and realign it. Then, once the protector is on the screen, give it a soft press in the center and allow the adhesive surface to grip to the screen naturally.

   TIP – You can place the screen protector in place and fix it on the upper side with adhesive strips to the housing. This will keep the screen protector aligned when sticking in on.

7. If there are any bubbles remaining, use the cloth provided to gently smooth them toward the edges of the screen protector.

For more information on where to purchase the correct screen protector for your device, contact your local Trimble reseller.

Charging and power modes

It takes up to 4.5 hours to charge the TSC7 handheld PC battery from an empty state. It may take longer if you are using your device for power-intensive activities, for example using GNSS or processing a lot of data while you are charging it.

Charging the battery

1. Connect the appropriate international plug adapter for your region to the AC adapter.

2. Connect the power cord to the charging port on the device.

3. Plug the power supply into an electrical outlet.

LED charging status

The charging status is shown with an LED on the front of the display.

- ☀ Red: charging error
- ☀ Orange: TSC7 handheld PC is charging.
- ☀ Green: TSC7 handheld PC is fully charged.

To be updated with official illustrations/images

Turning the device on

To turn on the device, press and hold the **Power** key until the [Trimble] logo appears.

NOTE – Do not press the power key repeatedly; do not hold the power key for four seconds or longer.

Sleep and Hibernate states

If you do not use your device for a few minutes, the screen turns off and the device goes into a power-saving Sleep state. The Sleep state enables your device to resume quickly when you want to start working again.

If you do not use your device for several hours, it will go in to Hibernate state. The Hibernate state saves your work and turns off the device. When you start up the device again, you are back where you left off.

Wake and unlock

To wake your device from Sleep or Hibernate state, press any key. After waking your device, to unlock it:

1. Swipe up from the bottom edge of the screen or press a key.

2. At the sign-in screen, enter your password or PIN.

Restart the device

To restart your device, tap **Start** ⊞ / **Power** / **Restart**.

Turning off the device

To turn off the device, tap **Start** ⊞ / **Power** / **Shut down**.

For information on customizing power management features, see Power options, page 30.

Checking the battery level

You can check the battery level:

- on the Lock screen. When you wake the device, the battery status appears in the lower-right corner of the Lock screen.

- on the Desktop taskbar. The battery status appears on the right side of the taskbar. Tap the battery icon for information about the charging and battery status, including the charge percent remaining.

- on the battery pack. Press and hold the button on the battery pack to check the

battery charge level.

Battery pack charge level indicator	Battery Charge Level
	Empty
	Not enough charge to start device (<5%)
	<25% charged
	25% to 50% charged
	50% to 75% charged
	75% to 100% charged

Power options

The Windows 10 Pro operating system comes with pre-defined power options (Balanced, Power Saver, and High Performance). To access Power Options:

1. On the Desktop, tap the **Battery icon** in the **Notifications** bar at the bottom right of the screen, then tap **Power & sleep settings**.

2. Make sure Power & sleep is selected in the list on the left, then under **Related settings**, tap **Additional power settings**.

By default, the tablet computer is in Balanced mode.

Making your battery last longer

Following are some practical suggestions that you can do to maximize the operating time of the battery:

- Enable Power Management, and choose a power plan that saves power. A power plan is a collection of hardware and system settings that control how the device manages power.

- Decrease the display brightness to the lowest comfortable level.

- Shorten the length of time before the operating system turns off the display.

- If you use a USB flash drive, unplug it when you are not using it. Many USB devices use power just by being connected.

- Turn off the wireless radios when you are not using them. See Connecting to and using wireless networks, page 35.

- Turn off the tablet computer when you are not using it.

For more information on making your battery charge last longer, refer to the help topic on *Battery Saving tips on the Windows 10* support site on www.microsoft.com.

Using the touchscreen

Your TSC7 handheld PC can be easily operated with the touchscreen (using your fingers or a stylus), a mouse, and the keypad. You can easily switch between any of these input methods.

The table below describes the main touchscreen input gestures and functions supported on this device.

Tap	Tap once on something.	Opens/executes the action of what you tap on. To enter text, tap where you want to type; the onscreen keyboard displays.
Press and hold	Press and hold your finger or the stylus down for a few seconds.	Shows a menu with options related to what you're doing (like right-clicking with a mouse). On the pop-up menu that appears, tap the action you want to perform.
Double-tap	Double-tap on something.	Tap quickly twice on a webpage, map, or other screen to zoom.
Slide / swipe	Slide / swipe	Scrolls through what's on the screen. Quickly move

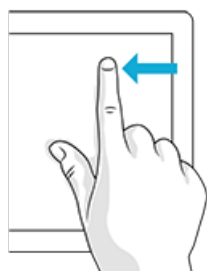|	your finger or the stylus across the screen.	your finger across the surface of the screen, without pausing when you first touch it, to scroll a page or a list up or down. Scrolls vertically or horizontally.
Drag	Drag your finger or the stylus across the screen.	Hold your finger or the stylus on an item for a moment and then, without lifting your finger/the stylus, move across the screen until you reach the target position. • Drag in a list to select multiple items. • Drag items on the screen to reposition them.
Pinch or stretch	Pinch your thumb and forefinger together or move them apart.	Zooms in or out of a website, map, or picture.
Rotate	Put two or more fingers on an item and then turn your hand	
Swipe from edge	Swipe in from an edge of the screen.	• Left edge swipe. Displays the Task View, the universal task-switching interface. • Right edge swipe. Displays the Action Center. • Top edge swipe. Displays the hidden title bar of the currently-running app. You can also "long-swipe" to close the app.

- Bottom edge swipe. Displays the taskbar when the currently-running app is displayed full screen.

Using the onscreen keypad

You can type on the device using the touchscreen keypad. To access the onscreen keypad, tap in a text field, or tap the keypad icon in the taskbar. To hide the keypad, tap anywhere out of the text field, or tap the keypad icon again.

Using the stylus

Take notes, draw, navigate, and mark up documents in your apps using the stylus that comes with your device.

To make a selection, tap the screen once on the item you want to select.

To display a right-click menu, tap and hold an item on the screen, then tap the required menu item.

Using a USB or Bluetooth mouse and keyboard

You can attach a physical keyboard, mouse and other peripherals to your device via USB or Bluetooth wireless technology. For more information see Connecting to accessories and other devices, page 38.

Display settings: adjusting the backlight

The TSC7 handheld PC is equipped with a high brightness outdoor readable display. You can easily increase the brightness of the display to increase the readability of the device in bright sunlight conditions, or turn down the brightness to help conserve battery power when working indoors or in dull conditions. You can also have the device automatically adjust the backlight power depending on the ambient light conditions.

To quickly adjust the backlight setting:

1. Swipe in from the right edge of the screen or tap **Action center** 💬 on the taskbar to open the Action center.

2. Tap the brightness icon ☀ to adjust the display brightness setting. The backlight cycles between 0%, 25%, 50%, and 100% power. Tap until you reach the backlight level that best suits your conditions.

To manually adjust the backlight setting:

1. Tap ■/ **Settings** / **System** / **Display**.

2. Use the brightness level slider to fine tune the display brightness level.

To set the backlight to adjust automatically:

1. Tap ■/ **Settings** / **System** / **Display**.

2. Turn the automatic adjustment on or off using the toggle switch.

Display settings: rotation lock

The TSC7 handheld PC is equipped with orientation sensors that can detect if your device is in portrait or landscape orientation. The operating system can automatically adjust the display to match your device orientation, or you can lock the orientation.

To adjust the automatic display orientation feature, swipe in from the right edge of the screen or tap **Action center** 🖾 on the taskbar to open the Action center, then select

rotation lock 🔓 to turn rotation lock on or off.

3

Connecting to and using wireless networks

▶ Working with Wi-Fi networks

▶ Working with mobile broadband

▶ Airplane mode

If your TSC7 handheld PC model supports wireless connectivity, you can connect to wireless networks using the built-in Wi-Fi radio (also sometimes called Wireless LAN, WLAN, or 802.11). Some TSC7 handheld PC models also come with built-in mobile broadband data (also called Wireless WAN, WWAN, or cellular data) capability. This section describes how to get online with your TSC7 handheld PC using these wireless networking capabilities.

Working with Wi-Fi networks

Using Wi-Fi you can connect to a wireless network and browse the Internet, download apps, send email messages, access online services, or access other computers and devices on your network.

Before you can send and receive data over Wi-Fi, you need to turn on Wi-Fi on your TSC7 handheld PC and connect to a wireless network.

Connecting to Wi-Fi

1. Tap the Wireless network icon in the bottom-right corner of the screen.

   A list of available wireless networks appears.

2. Select the Wi-Fi network you want to connect to.

3. Tap **Connect**. If prompted, enter your network security key (network password), and tap **Next**.

4. If prompted, choose whether you want to share with other computers and devices on the network. Select **No** if you are connecting to a network in a public place like a café.

5. To check your connection, tap ▦, and select **All Apps** / **Internet Explorer**. Some wireless networks may require you to enter a password in a browser window.

Disconnecting from a Wi-Fi network

1. Tap the Wireless network icon ⋙ in the bottom-right corner of the screen.

2. Select the network that has a **Connected** status.

3. Tap **Disconnect**.

Forgetting a Wi-Fi network

If you do not want your device to automatically connect to a saved Wi-Fi network, you can forget that network.

To forget a wireless network so it no longer appears in your list of networks:

1. Tap ▦ / **Settings**.

2. Select **Network and Internet** / **Wi-Fi** / **Manage Wi-Fi settings**.

3. In the list of networks that appears under **Choose a network to forget**, select the network you want to remove, and tap **Forget**.

Working with mobile broadband

If you have a TSC7 handheld PC model with mobile broadband, you can also connect to a mobile broadband network.

Before you can send and receive data over mobile broadband, you need to turn on Cellular data on your TSC7 handheld PC and configure the connection.

Connecting to mobile broadband

1. Tap ▦ / **Settings** / **Network and Internet** / **Cellular**.

2. Under **Cellular**, select the name of your operator—for example, AT&T.

3. If you want to connect to this network every time it's in range, select **Connect automatically.**

4. Windows will switch automatically between Wi-Fi and mobile broadband as needed. You might incur extra charges if you allow roaming.

5. Tap **Connect**.

For more information, refer to the help topic on *Cellular settings in Windows 10* on the Windows 10 support site www.support.microsoft.com.

Locating the device's IMEI number

The IMEI number is a unique 15-digit number that identifies the cellular module installed on your device. Your mobile broadband operator may need to know the IMEI number of your device in order to register the device with the network and activate your mobile broadband data plan.

If your TSC7 handheld PC is mobile broadband enabled, the IMEI number will be printed on the serial number label under the battery.

Alternatively, to check the IMEI number in the operating system:

1. Tap **Settings** / **Network and Internet** / **Cellular**.

2. Select the Cellular module icon, then select **Advanced options**.

   The cellular module properties (including the IMEI) are displayed in the **Properties** section.

3. To copy the IMEI number to the clipboard, select Copy, then paste the text into your desired application (for example, Notepad, or the Email client) using the Paste command or the Ctrl+V keypad shortcut.

If you cannot find the IMEI number for your device, contact your reseller.

Airplane mode

If you are travelling on an airplane, or don't need to use wireless functions on the TSC7 handheld PC for a while, use Airplane mode to turn on or off all wireless radios with transmitting features built into the TSC7 handheld PC, including Bluetooth, Wi-Fi, Cellular LTE, or GNSS, as well as any wireless radios connected to the TSC7 handheld PC.

To turn Airplane mode on or off, tap the Action center icon ⊟ on the taskbar, then select **Airplane mode** ✈. If the icon is dimmed, Airplane mode is off.

4

Connecting to accessories and other devices

▶ Connecting to USB accessories

▶ Connecting to Bluetooth accessories

▶ Connecting to RS-232 peripherals

▶ Transferring data between your TSC7 handheld PC and another computer

You can connect monitors, accessories, and other devices directly to your TSC7 handheld PC using USB or Bluetooth and RS-232. Some custom accessories can connect to the device through the proprietary docking connector.

Connecting to USB accessories

The TSC7 handheld PC has two USB ports for connecting USB devices, such as a flash drive, scanner, printer, keyboard, and mouse. The TSC7 handheld PC has built-in support for mass storage devices and human interface devices.

Other types of USB devices may require drivers.

To connect a USB device, plug the device cable into one of the two USB A-type ports on the bottom of the TSC7 handheld PC.
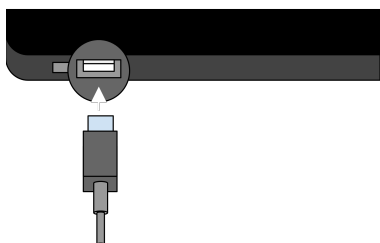
Connecting to Bluetooth accessories

The TSC7 handheld PC has embedded Bluetooth wireless technology—a short-range wireless communication technology that allows wireless data transfer and communication between devices over a distance of up to 10 meters (30 feet).

At the top of your screen, a Bluetooth icon shows when Bluetooth is turned on.

TIP – To save battery, turn off Bluetooth when you are not using it. Bluetooth is off when the device is in Airplane mode.

Before you can transfer data or communicate between your TSC7 handheld PC and another Bluetooth enabled device, you must pair the TSC7 handheld PC and the device.

To pair and connect a Bluetooth device with your TSC7 handheld PC:

1. Turn on the Bluetooth device and make it discoverable. To learn how to do this, check the documentation for your Bluetooth device or go to the manufacturer's website.
2. Tap ■ / **Settings** / **Devices** / **Bluetooth**.
3. Under **Manage Bluetooth** devices, make sure the slider is set to On, and wait while the TSC7 handheld PC searches for Bluetooth devices.
4. In the list of Bluetooth devices, select the device you want to pair with your TSC7 handheld PC, then tap **Pair**.
5. Follow the on-screen instructions to finish pairing your device.
6. If the other device requires a passcode (sometimes called a pairing code), you'll be prompted for it. If you don't know the passcode, check the information that came with your device or the manufacturer's website.

Connecting to RS-232 peripherals

If your TSC7 handheld PC is fitted with the RS-232 version of the I/O module, you can directly attach RS-232 peripheral devices with a null modem cable.

To connect an RS-232 device, plug the device cable into the port. Refer to the documentation for the RS-232 device for instructions on setting up and using the device.

Transferring data between your TSC7 handheld PC and another computer

Your TSC7 handheld PC is powered by the Windows 10 Pro operating system, and can not connect directly to an office computer powered by a Windows operating system as a 'client' in the same way as a device with a mobile operating system can. You may still want to

transfer data from your TSC7 handheld PC to another PC; there are a number of ways you can do this, including:

- USB memory stick; see Connecting to USB accessories, page 38.

- Wireless LAN,; see Working with Wi-Fi networks, page 35.

- Ethernet; see Using the office cradle, page 1.

- Cloud storage services, such as Microsoft OneDrive, Google Drive, or Dropbox

- Third party solutions, such as an off the shelf USB to USB data transfer cable.

Transferring data using a microUSB cable

You can transfer data to either a computer powered by the Windows operating system or to a Mac computer using a microUSB data cable.

Transferring data to a Windows computer

1. Unlock your device's screen.

2. Use a microUSB data transfer cable to connect your TSC7 handheld PC to your computer.

3. Swipe down from the top of your device's screen to see your notifications.

4. Tap the **USB for...** notification. Then tap **Transfer files (MTP)**.

5. A **File Transfer** window opens on your computer. Use it to drag and drop files, just like with other external devices and storage.

6. When you have transferred all the required items, eject your device from the Windows computer.

7. Unplug the USB cable.

Transferring data to a Mac computer

To transfer files, you must ...

5

Using the camera

▶ Taking photos and videos

▶ Changing camera settings

▶ Enable the Camera app to access your location to geo-tag photos

▶ Viewing photos and videos

The TSC7 handheld PC is fitted with two cameras; a 2MP camera on the front of the device, and an 8MP camera with LED flash on the rear. Both cameras are accessible by the camera application.

NOTE – The device may be shipped with a protective film covering the rear camera and flash windows. Remove the film with a fingernail or the plastic stylus tip before first use to ensure proper focus and exposure of your photos and videos.

Taking photos and videos

By default, the built-in Camera app is ready to take photos, but you can switch easily between photo and video mode. Before you use the camera, make sure you have removed the protective film on the camera and flash window:

To take a photo or record a video:

1. Tap ⊞/ Camera.

2. Tap the on-screen Camera or Video button to activate the camera you want to use, then tap the button again to take a picture or start recording video.

The camera shutter is activated by tapping the camera shutter icon on the touch panel, or if you prefer by pressing OK on the keypad.

[insert screen of camera application]

Changing camera settings

1. Tap ⊞ / **All Apps** / **Camera** to launch the Camera app.

2. To access the camera settings, tap ••• in the top right corner of the screen, then tap **Settings**.

3. To hide the Camera settings, tap elsewhere on the screen.

Enable the Camera app to access your location to geo-tag photos

1. In the Camera app settings, under **Related settings**, tap **Choose whether camera can use location info**.

2. Tap **Yes** to confirm you want to switch apps.

3. In the **PRIVACY** screen, make sure **Location** is selected, then slide the **Location** switch to **On**.

4. Close the **Settings** app to return to the **Camera** app.

Viewing photos and videos

By default, your photos and videos are saved to the **Camera roll** on the TSC7 handheld PC

There are several ways to look through your photos and videos:

- **Camera app**: Select **Photos** in the upper-left corner to open the **Photos** app and view the most recent picture or video taken. Swipe right to see others in your collection.

- **Photos app**: Select **View collection** in the upper-left corner to see other photos and videos in your collection.

- **File Explorer or OneDrive app**: Go to your **Pictures library** and open your **Camera roll**.

For more information, including info on changing where photos are saved and editing photos and videos, see [support note on this].

6

Using the pre-installed apps

▶ Trimble GNSS Status utility

▶ Bundled Microsoft apps

▶ Getting more apps

The TSC7 handheld PC comes with a range of useful pre-installed software. This chapter describes the most important pre-installed apps you should know about, and summarizes what they can be used for.

Trimble GNSS Status utility

The Trimble GNSS Status utility enables you to view accuracy information for the currently selected GNSS source. For receivers that support these function, use the GNSS Status utility to:

- set up correction sources
- apply licensing options
- configure NMEA output .

For more information, refer to the *Trimble GNSS Status Utility User Guide* on www.trimble.com.

Bundled Microsoft apps

Here are some of the useful productivity applications that come bundled with your TSC7 handheld PCpowered by the Windows 10 Pro operating system.

OneNote

You can use the OneNote app on your [Pelican] to take notes and store them in the cloud. For more info, see www.onenote.com.

Mail

Mail automatically organizes your inbox. You can add multiple accounts and

access them through this single point.

Calendar

Use Calendar to manage your schedule.

People

The People app brings all your contacts together in a single space. See each contact's email address, phone number, website, and other information at a glance.

Microsoft Edge

Microsoft Edge gives you fast and fluid access to the Internet. Open pages in Reading View, save them to your reading list, or take notes right on the page using inking. Check out Get to know Microsoft Edge on Windows.com for details.

Camera

The Camera app lets you take regular photos, photo bursts, or video using either the front or back camera on your [Pelican].

Photos

Edit and organize your photos using the Photos app. Crop, enhance, and add effects to your images.

News

News brings you the latest breaking stories as well as more in-depth coverage. You can customize the coverage to add more local information or highlight the topics you choose.

Weather

The Weather app offers hourly, daily, and 10-day forecasts as well as historical information and annual weather trends.

Getting more apps

You can install more apps and programs from the Windows Store, websites, or a CD or DVD. To learn more see How to install programs on Windows 10 on https://support.microsoft.com.

To find applications for your TSC7 handheld PC, go to Microsoft Store on www.microsoftstore.com.

7

Using the Windows 10 operating system

- ▶ Using accounts
- ▶ Using the Start menu
- ▶ Using the Action center
- ▶ Using Task view and virtual desktops
- ▶ Settings

This section introduces some basic information on using the Windows 10 Pro operating system on your TSC7 handheld PC. For comprehensive information, go to Get Started with Windows 10 on http://windows.microsoft.com.

Using accounts

When you set up your TSC7 handheld PC, an account is set up for you. You can create additional accounts later for each user of the device, so that each person using the device can have their own settings.

Sign in

1. Press the power button to turn on or wake the TSC7 handheld PC.

2. Swipe up on the screen or tap a key on the keypad.

3. If you see your account name and account picture, enter your password and then tap the right arrow or tap **Enter** on the keypad.

   If you see a different account name, select your own account from the list at the left. Then enter your password and then tap the right arrow or tap **Enter** on the keypad

Sign out

Tap ■ , and right-click your account name. Then tap **Sign out**.

Using the Start menu

Tap ▦ in the taskbar or press the **Start** key on the keypad to open the **Start** menu.

At the lower left of the Start menu, you'll find quick links to File Explorer, Settings, Power (shut down, sleep, and restart), and All apps.

The apps you've used most often appear at the upper left.

Your name and profile picture appear at the top of the left side. Select them to change your account settings, lock the screen, or sign out.

Tiles on Start act as quick links to apps. You can rearrange, resize, add, and remove tiles whenever you want. For more information, see Love it? Pin it on http://windows.microsoft.com.

Using the Action center

Swipe in from the right edge of the screen or tap **Action center** 🗩 on the taskbar to open the Action center. Here you can adjust common settings like Wi-Fi connections or screen brightness, create a wireless connection to another screen, and more. If there are notifications waiting for you, they appear at the top of the Action center. For more info, see Take action instantly on http://windows.microsoft.com.
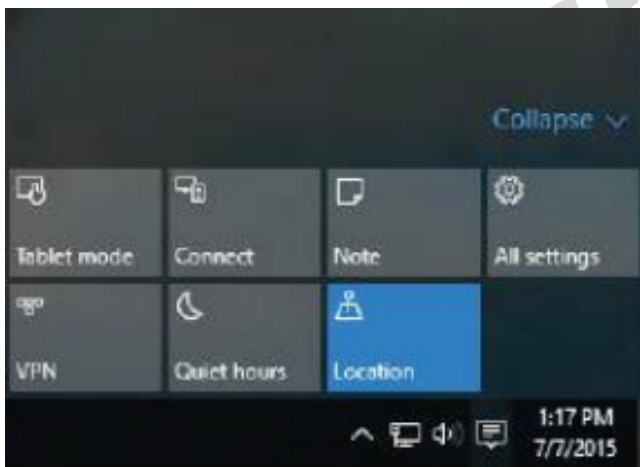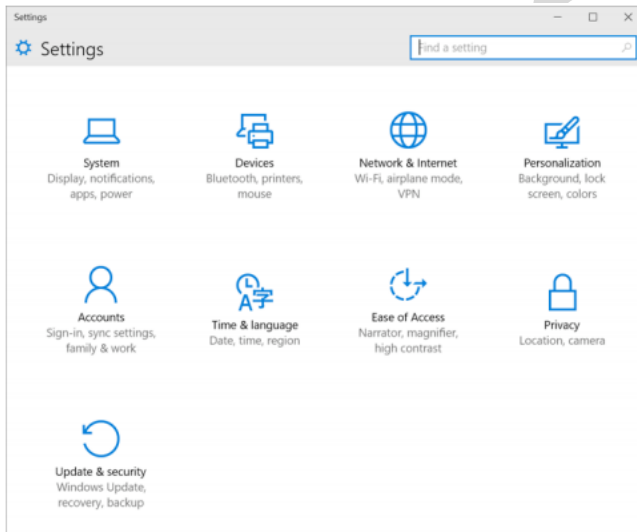
Using Task view and virtual desktops

Swipe in from the left edge of the screen or tap **Task view** on the taskbar to see all your open apps. Select an app to focus on, or close an app by clicking the X in the upper-right corner of the app.
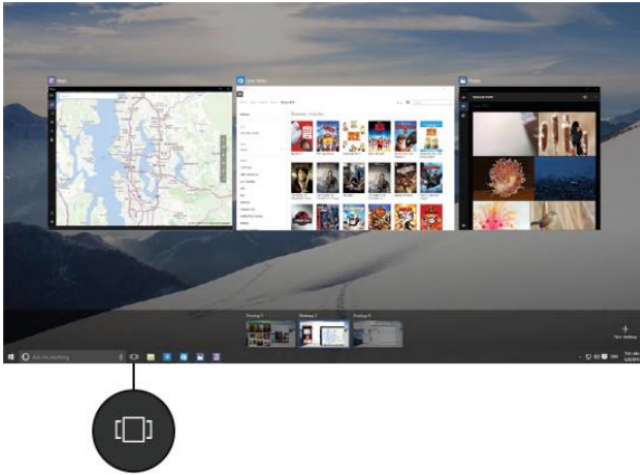
Settings

Tap ⊞ / **Settings** for access to all your settings.

8

Troubleshooting, downloading updates, and repair

▶ Troubleshooting

▶ Operating system and software updates

▶ Repairing your device

Troubleshooting

This section contains answers to some common troubleshooting questions. If you encounter problems when using your TSC7 handheld PC, try the following troubleshooting tips to detect and solve the problem. If problems persist, contact your local distributor for support.

Further assistance and support with the Windows 10 Pro operating system

For comprehensive online support, how-to guides, troubleshooting articles and related downloads for the Windows 10 Pro operating system, go to the online Microsoft support pages for the Windows 10 operating system.

Performance issues

Device is running slowly

- Operating system updates may be installing.

  Windows 10 Pro may have automatically downloaded software or operating system updates, and is installing these in the background. While these updates are being

installed, system performance may be reduced, or wireless connectivity speed may appear to be slower than normal.

- You may have too many background applications are running.

  Some programs start automatically and run in the background. You can disable these programs at startup to improve Windows startup time and overall system performance.

- You may have malware or a virus.

  A virus or other malicious software could cause your device to run slowly. Check whether your device has a virus by using Windows Defender, which is included with Windows 10, or refer to the documentation for your third party antivirus software.

- Check your wireless network speed.

  If the apps you are using are connecting to the Internet, a poor network connection may be causing them to run slowly. For detailed information on checking your network, see Wi-Fi speed is slow, page 49.

- Check for low disk space.

  You may be able to improve performance if you free up some disk space on your device. Disk Cleanup can delete temporary and system files, empty the Recycle bin, and remove apps and data that you no longer need.

- Your device may have overheated.

  If you are using your device in a hot environment and/or are using a processor or memory-intensive, your device may have become too hot. Move your device to a cooler spot, wait five minutes, and see if it runs faster.

Wireless connectivity issues

Wi-Fi speed is slow

- Your network is running slow for all devices.

  You should first check to see whether your network is slow on another device. Can you connect to your wireless network and browse the web at normal speeds from another PC, tablet, or smartphone? Try running a Network Speed Test to ensure your Internet connection is functioning normally.

- Your Wi-Fi signal is weak.

  Look at the wireless network Wireless network icon icon in the taskbar.

  This icon shows your current signal strength. If the icon is partially dimmed, move your device closer to your wireless router to see if the signal improves. If your router is

broadcasting on both a 2.4GHz and 5GHz frequency, try connecting to a different frequency. In general, a network operating on the 5GHz frequency will be faster and less susceptible to interference, but will have a shorter range than a 2.4GHz network.

Power and battery issues

Battery will not charge

- The battery is overheated, or too cold.

  The battery pack will charge between 0 °C and 40 °C. If you have been using or storing the battery and/or device in a particularly hot or cold environment, the battery pack may be outside the safe charging temperature range. Sensors in the battery pack will prevent the battery from charging until its temperature returns to a normal level.

- The battery is not installed correctly.

  If the battery pack is not installed correctly in the device or the battery pack charger, it may not have a proper connection and will not charge.

- The battery terminals are dirty or corroded.

  If the terminals of the battery pack are dirty or corroded, it may not have a proper connection and will not charge.

Device will not start up

- The battery does not have enough charge to power the device:

  Press and hold the charge indicator button on the battery pack. At least one charge LED must be lit up to indicate that the battery pack has enough power for the device to start on battery power. If no LEDs light up on the battery pack, attach the device to an external power source, or swap the battery for a charged battery, then try again.

- The battery is not correctly installed.

  The device may not be receiving power from the battery if it is not installed properly. Remove the battery, then replace it, pressing down on both corners until it clicks into place, then slide the battery lock to the lock position (down).

Device suddenly turned off during use

- Make sure you are not accidentally pressing the power key.

  The Power key is located in the top left side of the device. Make sure that while gripping the device that you are not accidentally pressing the Power key and suspending the unit.

- The device may have run out of power and gone into critical suspend mode.

  If your battery charge level gets too low, the device will automatically go into a hibernate mode to prevent loss of data. Check the battery level by pressing and holding the battery level button. If the battery charge is too low, connect the device to external power, or swap the battery for a charged battery.

  If you regularly run out of battery power while in the field, consider carrying a spare battery with you. The device supports hot-swapping of the battery, which means that the device will keep running for a few minutes while you remove the battery pack and replace it with another.

Device shuts down when hot-swapping the battery

- Hot-swap battery is not sufficiently charged

  The hot-swap back-up battery allows you to change the main device battery pack for a charged one without shutting the device down. To function correctly, the hot-swap battery must have at least X minutes of charging time before it can work properly. If you attempt multiple hot-swaps without allowing the back-up battery to recharge, your device may shut down when the battery pack is removed.

Restarting or resetting the operating system

If your device becomes unresponsive, and the troubleshooting guide does not resolve the problem, you need to restart or reset your device.

For detailed instructions on the recovery options in Windows 10, refer to the Microsoft support pages on Windows 10 recovery options at www.support.microsoft.com.

Restarting your (unresponsive) device

If your device is no longer responding to touchscreen or keypad input, you may need to force it to restart by removing power from the system.

NOTE – *Restarting the system by holding down the Power key removes power to the CPU. Any unsaved files and settings will be lost.*

To force your device to restart, press and hold the Power key until the device shuts down (~15 seconds), then restart your device by pressing the Power key.

Resetting your device

If restarting your device does not resolve the issue that you are seeing, resetting it might help. Resetting lets you choose to keep your files or remove them, and then reinstalls the operating system.

To reset your device:

1. Tap ⊞/ **Settings** / **Update & security** / **Recovery**.

2. Select Get started then follow the onscreen instructions to reset your device.

3. At the reset menu, select one of the following:

   - **Keep my files**.

     - Reinstalls Windows 10 and keeps your personal files.

     - Removes apps and drivers you installed.

     - Removes changes you made to settings.

     - Removes any apps your dealer or distributor installed.

   - **Remove everything**.

     - Reinstalls Windows 10 and removes all your personal files.

     - Removes apps and drivers you installed.

     - Removes changes you made to settings.

     - If you're planning to donate, recycle, or sell your device, use this option and choose to fully clean the drive. This might take an hour or two, but it makes it harder for other people to recover files you have removed.

Resetting your device when the operating system is unresponsive

If you want to restore your device but cannot operate the touchscreen or the operating system is not responding to normal input, you may need to reset the device from the Boot Menu.

To reset from the Boot Menu:

1. Connect an external USB keypad to the device.

2. Press the Windows logo key ⊞ to get to the sign-in screen, then hold the **Shift** key down and select **Power** / **Restart** in the lower-right corner of the screen.

3. when the device restarts, tap **Troubleshoot** / **Reset this PC**.

If you cannot get to the sign-in screen, use a recovery drive or installation media to reset your device.

Resetting your device

You can remove all data from your TSC7 handheld PC by resetting it to factory settings.

IMPORTANT: By performing a factory data reset, all data will be wiped from the device. While any data stored in your Google Account will be restored, all apps and their associated data will be uninstalled.

IMPORTANT: Your device is protected to prevent other people from using it if it's been reset to factory settings. To ensure that it's really you doing the reset, you'll need to enter a Google username and password associated with the device after factory reset. If you don't have this information, you won't be able to finish the setup process and use the device at all after factory reset.

Erasing your data may take some time, so make sure that you plug your device into a power source before you start.

1. Open your device's **Settings** app .

2. Go to **Settings** / **Backup & reset**. You may need to enter your pattern, PIN, or password.

3. Tap **Factory data reset**.

4. Tap **Reset tablet**.

5. If you have a screen lock, you'll need to enter your pattern, PIN, or password.

6. Tap **Erase everything** to confirm.

7. When your device has finished erasing, select the option to reboot your device.

Operating system and software updates

Periodically, operating system and software application updates will be available for your device.

Windows 10 updates

The Windows 10 operating system periodically checks for updates so you don't have to. When an update is available, it is automatically downloaded and installed — keeping your device up-to-date with the latest features.

Installing the latest updates can help fix common issues, but you must be online to download the updates. If you are having trouble connecting and downloading updates because your wireless network is too slow, you can try using a wired network via the Office Cradle accessory.

Once online, to check for and install the latest updates manually, go to **Settings** / **Update & security** / **Windows Update**, and select **Check for updates**. If **Windows Update** says your device is up to date, you have all the updates that are currently available.

For more information about Windows updates, refer to the official *Windows Update FAQ* on www.microsoft.com.

Software downloads and updates

The latest versions of software including drivers, firmware updates, and software utilities, are available on the technical support pages on www.trimble.com.
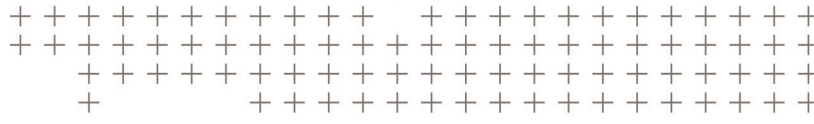
Repairing your device

Before you send your TSC7 handheld PC for repair, check the troubleshooting guide in this document. If you can't solve the problem with troubleshooting, contact your local Trimble dealer for further support.

Repair of this product should only be performed by an authorised service provider. Any attempt to disassemble this product by a non-authorised service provider will void the warranty.

For more information, contact your local Trimble dealer.